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Dräger medical
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Field Service Procedure

Part Number: SP00317
Rev: –
Date: 28 April 2004
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Innovian 1.1.0.7 to Innovian 1.2 Upgrade Procedure

Revision History

Revision	Description	Effective Date	Approval
1.0	Initial release	03/24/2004	
1.1	Added execution of protocol loader in section 4	04/02/2004	
1.2	Added Appendix A and B	04/05/2004	
1.3	Updated item 4.17, changed check 'reset existing items on load' to check 'Reset Groups'. Added Protocol Loader screenshots	04/19/2004	
1.4	Added Appendix C. Added new section 3.0, 'DotNet Framework 1.1 upgrade. Renamed 'DTS Package Execution' to 'PatientInfo Database Upgrade' and added section 5.0, 'PeriopDM Database Upgrade'. Made corrections to Appendix A to reflect the changes made in the other sections of the procedure. Renamed section 6.0 to 'Final Server Preparation'. Updated screenshots that go with stepps 4.14 and 5.14.	04/21/2004	Rev. Dash

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1.0 Introduction

1.1 Purpose

This document outlines the procedure needed to upgrade the Innovian server database from version DITdb_Build_0054.1 to DITdb_0067 (Software version 1.1.0.7 to 1.2.0.x).

1.2 Definitions, Acronyms, and Abbreviations

1.3 Applicable Documents

Document	**Number**
Innovian 1.1.0.7 to 1.2.x.x Upgrade EVT	4sys-PR-IN-0365
Innovian 1.1.0.7 to 1.2.x.x Upgrade EVT Report	4sys-TR-IN-0366
Innovian Workstation Procedure	SP00293

1.4 Prerequisites

This document assumes that the sites Innovian database is at version DITdb_Build_0054.1. If the database is not at that level, you must upgrade before continuing to section 2.0.
All sections of this document assume that you will be upgrading a database installed on the D:\ drive. If that is not the case, see Appendix A before proceeding to section 2.0.
There should be roughly 2.5 times the total database size in free space on the drive that the conversion is to be performed (ex. PeriopDM is 10 GB, there must be 25 GB of free space on the drive before executing the upgrade).
If the Innovian Terminology Loader is not being used to install terminology databases at this site, then follow the instructions in Appendix B to reactivate the necessary terminologies.
All Innovian applications must be shut down. No one may be using the Innovian system during the upgrade.
If the site is using a SQL Server Maintenance Plan, then it is recommended that you execute the steps in Appendix C at the end of this procedure. Please make the site administrator aware that you are making modifications to their backup scheme before executing Appendix C.

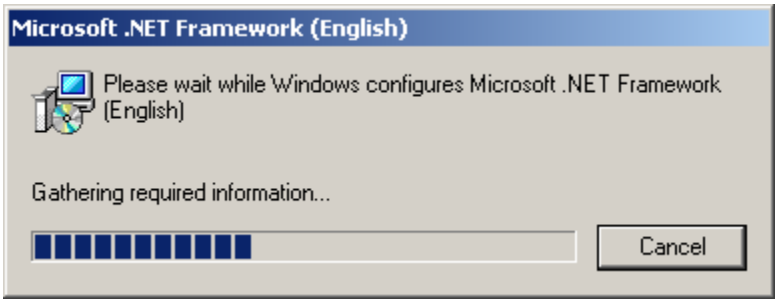
2.0 Server Preparation

2.1 Insert **Innovian Installation DVD** into the servers DVD drive.
2.2 Copy the **Innovian** folder and all of its contents from DVD:\Conversion\1.1.0.7 to 1.2.x.x\ to the **D:** drive of the server.
2.3 On the Innovian DVD, browse to DVD:\Language Packs\<Language of Installation Site>\Server\Innovian\ and copy the Devices folder and its contents to **D:\Innovian** on the server
2.4 Browse to and right click the **Innovian** folder once it has been copied to the D: drive and verify that it, and its contents, are writable.
2.5 Open **Enterprise Manager**.
2.6 Expand items in the left pane until you reach the server '**local**'.
2.7 Detach the '**Audit4sys**' Database
2.8 Attach **AuditInfo_Data.mdf** from D:\Innovian as AuditInfo; be sure to select '**sa**' as the owner of the database.

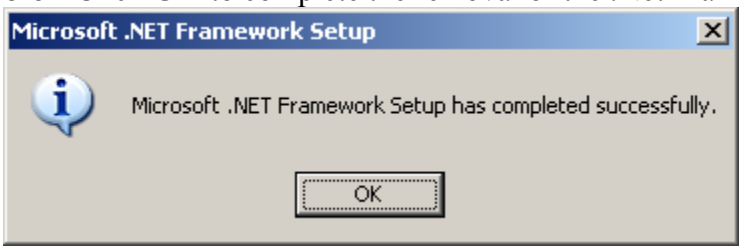
3.0 DotNet Framework 1.1 Upgrade

Note: If the server already has .Net Framework 1.1 installed, proceed to section 4.0.

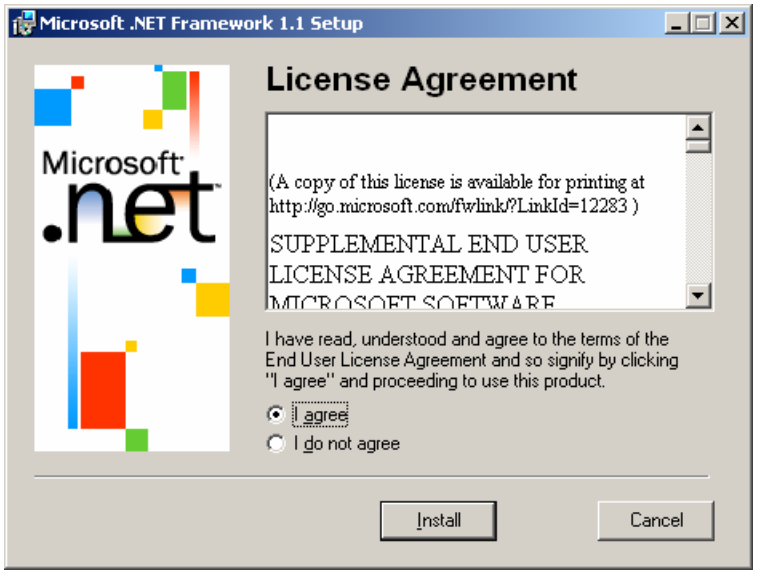
3.1 Click **Start\Settings\Control Panel**.
3.2 Double click **Add or Remove Programs**.
3.3 Select '**Microsoft .NET Framework (English) v1.0.3705**' and click '**Change/Remove'.**
3.4 Click **Yes** when prompted 'Are you sure you want to remove the Microsoft…'
3.5 Wait while the Framework is removed.



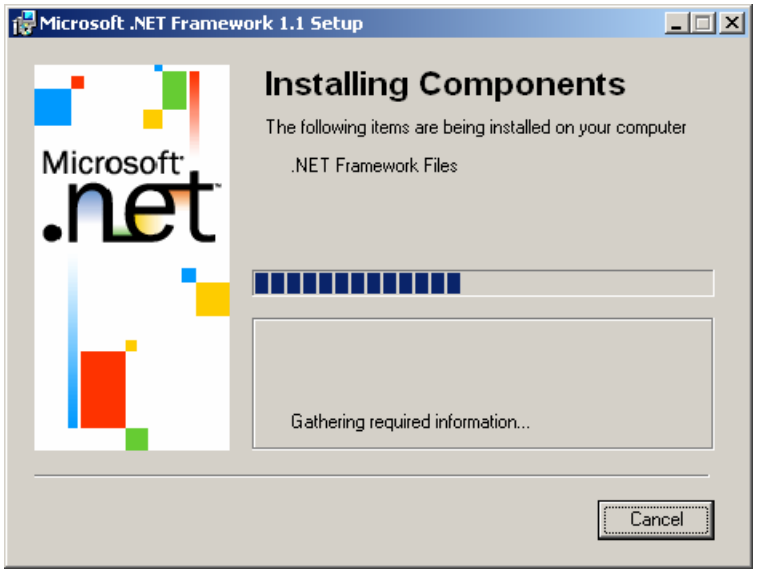
3.6 Click **OK** to complete the removal of the .Net Framework.



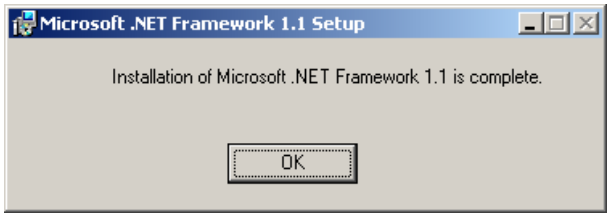
3.7 Browse to D:\Innovian\DotNet Framework and double-click **DotNetfx – Framework 11.exe**.
3.8 Click **Yes** when prompted: **Would you like to install Microsoft .Net Framework 1.1 Package?**
3.9 Select **I Agree** and click **Install**.



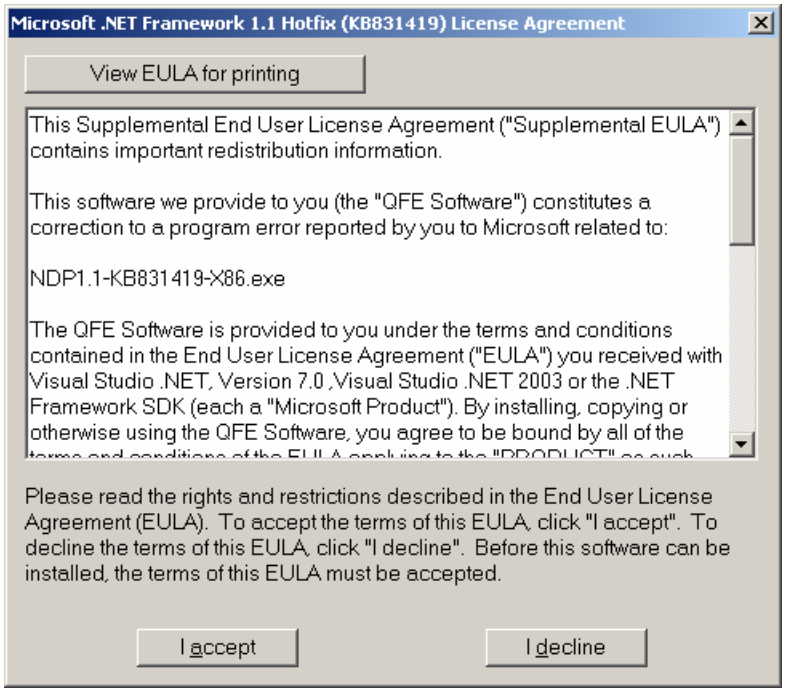
3.10 Wait until all components have been installed.



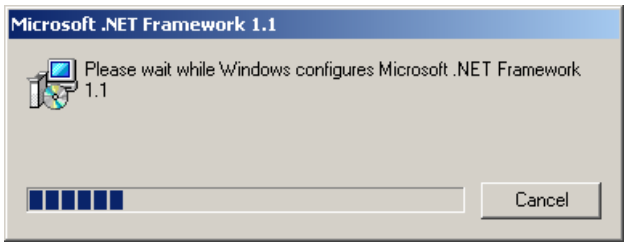
3.11 Click **OK** to complete the installation.



3.12 Browse to D:\Innovian\DotNet Framework.
3.13 Double-click **NDP11-KB831419-X86.exe**
3.14 Click **OK** when prompted: **Do you want to install Microsoft .Net Framework 1.1 Hotfix (KB831419)?**
3.15 Accept the license agreement.



3.16 Wait while the install configures the framework.

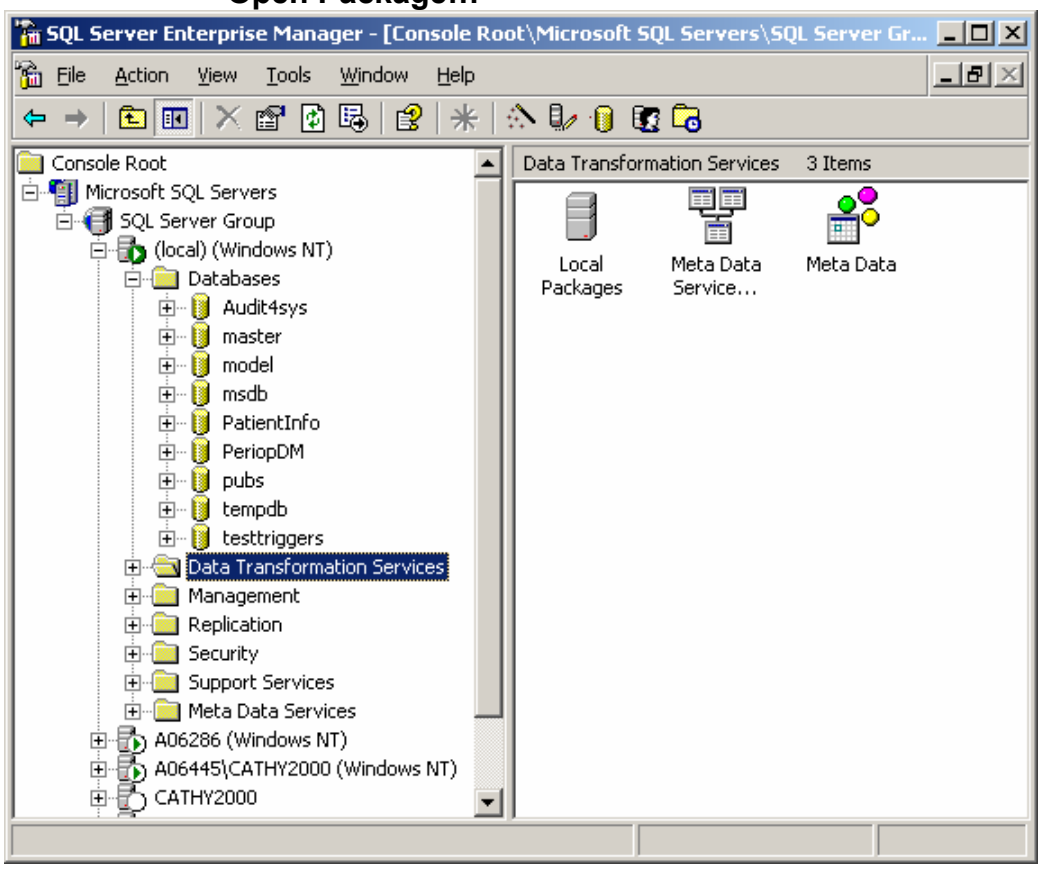


3.17 Click **OK** to complete the installation of the hotfix.

3.18 If prompted, click **Yes** and allow the system to reboot.

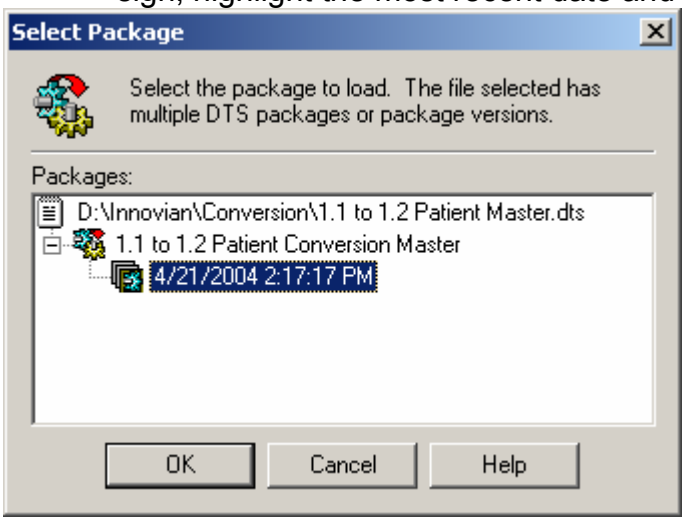
4.0 PatientInfo Database Upgrade

4.1 Open **Enterprise Manager** if it is not already open.
4.2 Expand items in the left pane until you reach the server '**local**'.
4.3 Attach the DB file D:\Innovian\PatientInfo_Data.mdf as '**Staging**' with an owner of '**sa**'.
4.4 Right click the **Data Transformation Services** folder and choose '**Open Package…**'

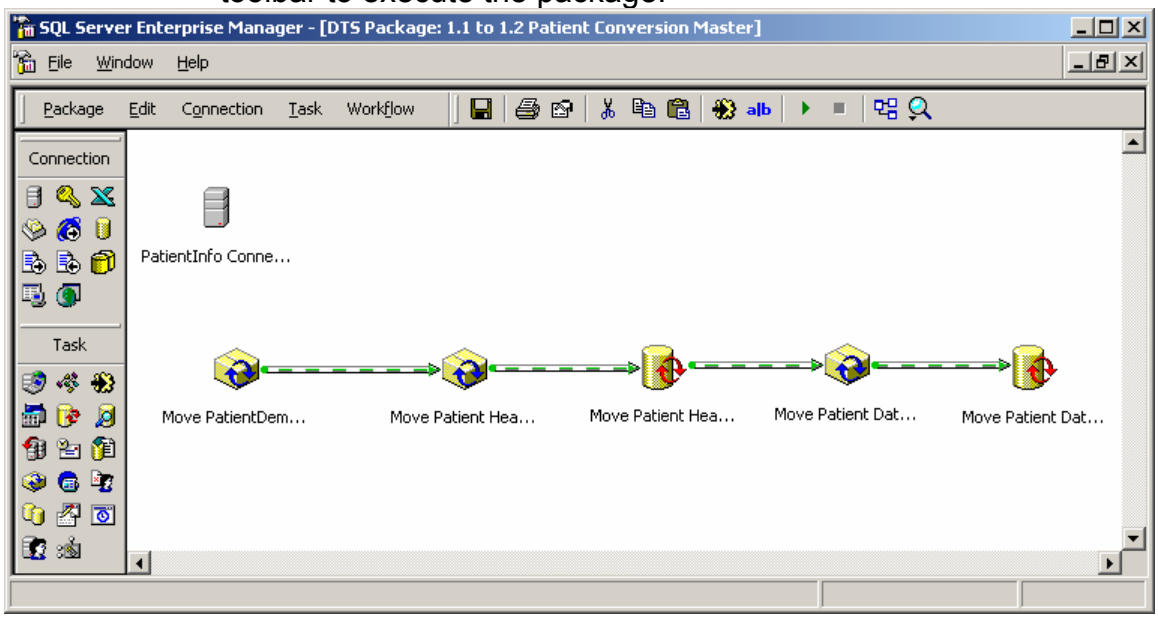


4.5 Browse to 'D:\Innovian\Conversion' and open '**1.1 to 1.2 Patient Master.dts**'.

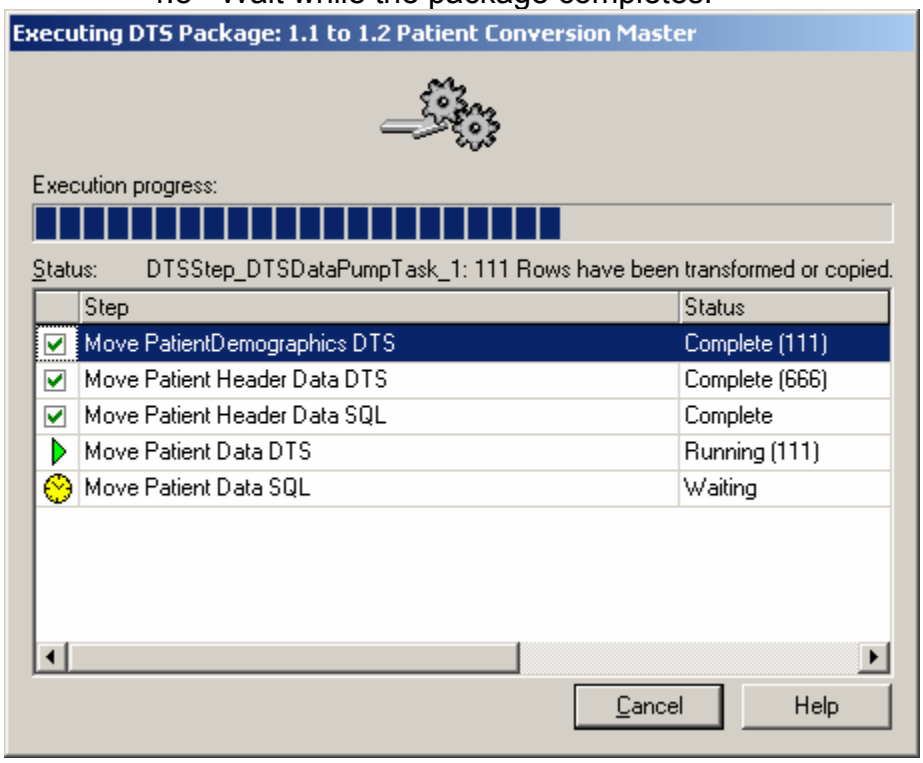
4.6 Expand '1.1 to 1.2 Patient Conversion Master' by clicking on the '**+**' sign, highlight the most recent date and click **OK**.



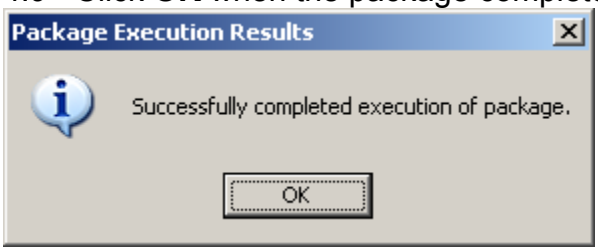
4.7 Once the package has opened click the **green arrow** in the toolbar to execute the package.



4.8 Wait while the package completes.

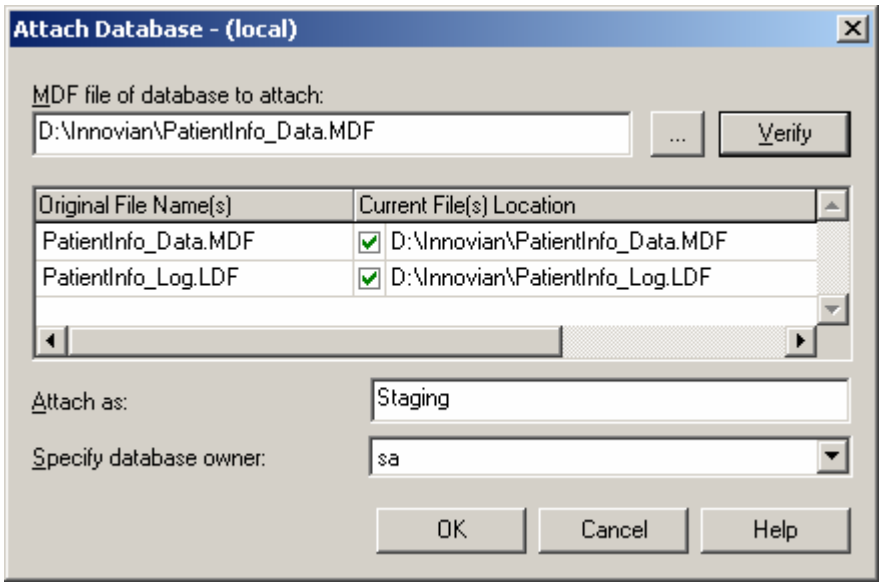


4.9 Click **OK** when the package completes.



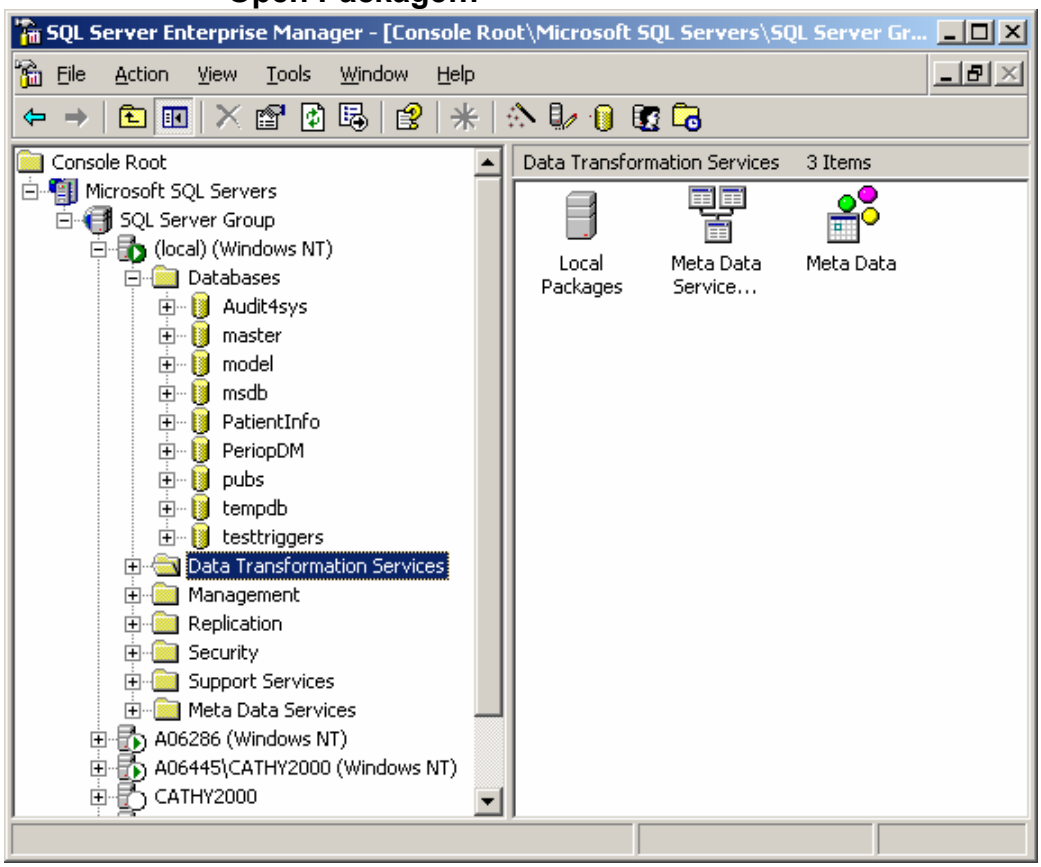
4.10 Click **Done**.
4.11 Close the package window.
4.12 Detach the '**PatientInfo**' database.
4.13 Detach the '**Staging**' database.

4.14 Attach **D:\Innovian\PatientInfo_Data.mdf** making sure to change the Attach as field from 'Staging' to '**PatientInfo**' and select '**sa**' as the owner.



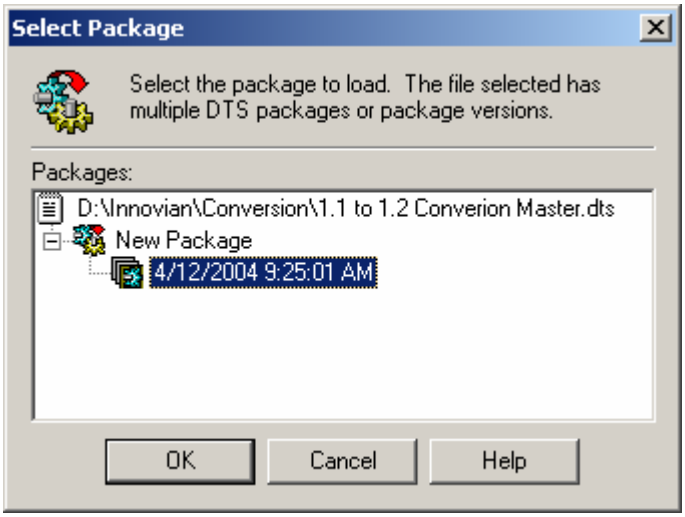
5.0 PeriopDM Database Upgrade

5.1 Open **Enterprise Manager** if it is not already open.
5.2 Expand items in the left pane until you reach the server '**local**'.
5.3 Attach the DB file **D:\Innovian\PeriopDM_Data.mdf** as '**Staging**' with an owner of '**sa**'.
5.4 Right click the **Data Transformation Services** folder and choose '**Open Package…**'

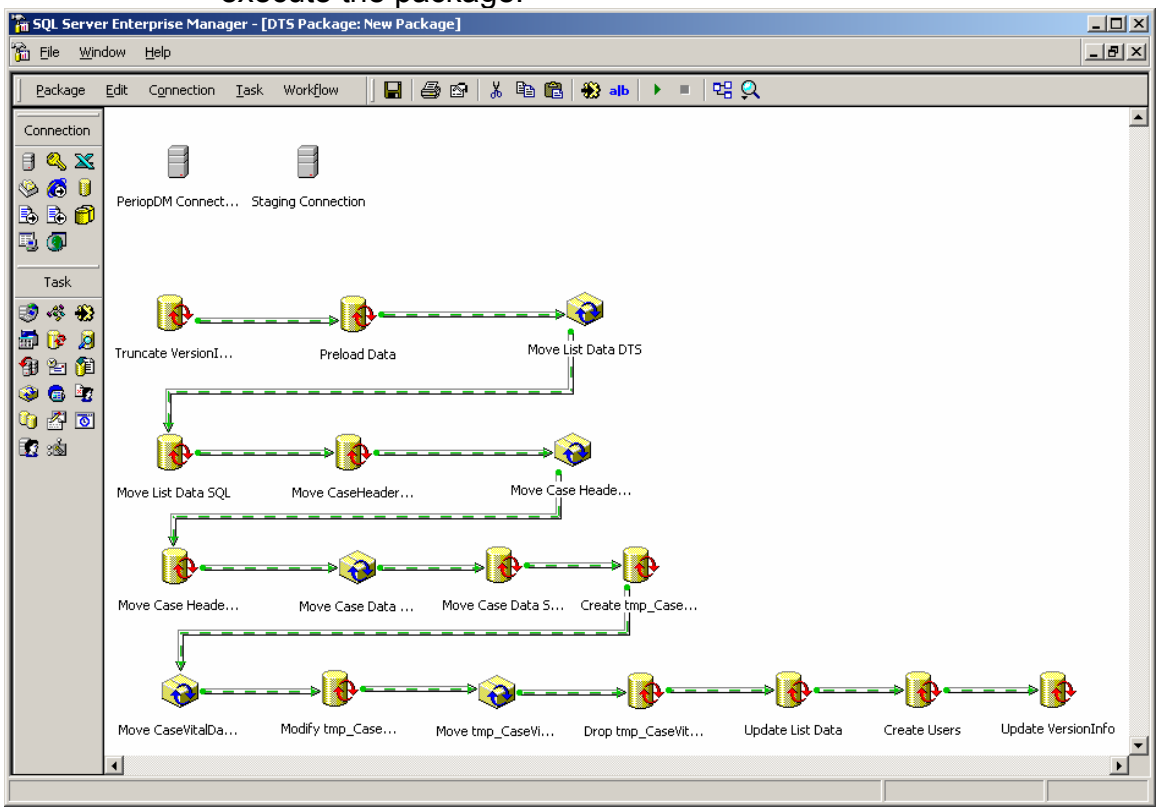


5.5 Browse to 'D:\Innovian\Conversion' and open '**1.1 to 1.2 Conversion Master.dts**'

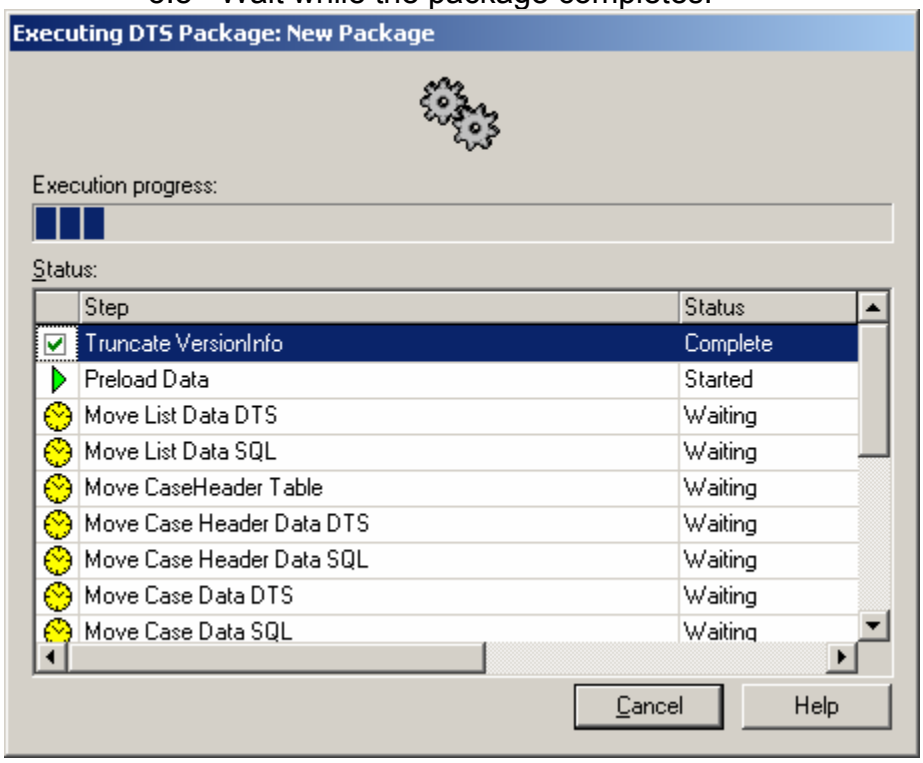
5.6 Expand '**New Package**' by clicking on the '**+**' sign, highlight the most recent date and click **OK**.



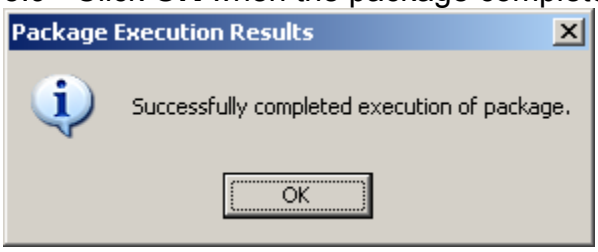
5.7 Once the package opens, click the **green arrow** in the toolbar to execute the package.



5.8 Wait while the package completes.

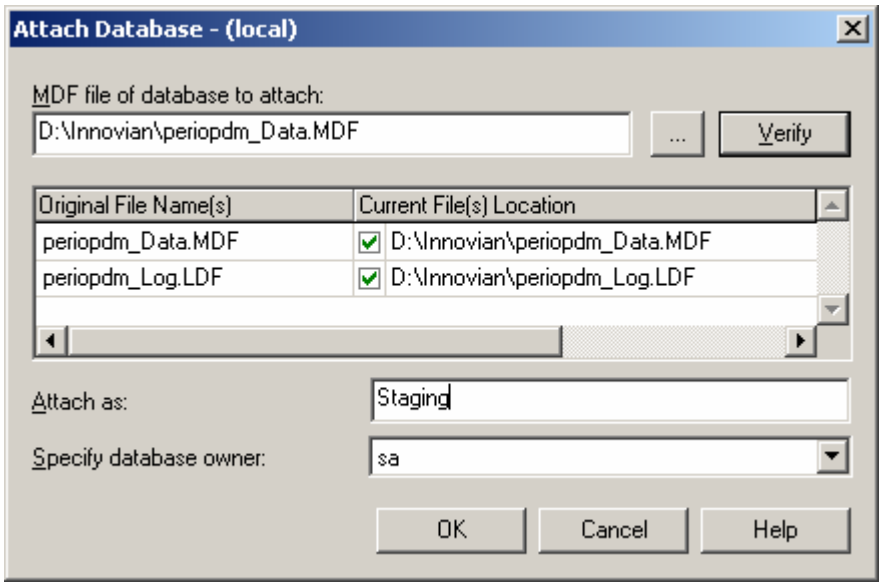


5.9 Click **OK** when the package completes.



5.10 Click **Done**.
5.11 Close the package window.
5.12 Detach the '**PeriopDM**' database.
5.13 Detach the '**Staging**' database.

5.14 Attach **D:\Innovian\PeriopDM_Data.mdf** making sure to change the **Attach as** field from 'Staging' to '**PeriopDM**' and select '**sa**' as the owner.



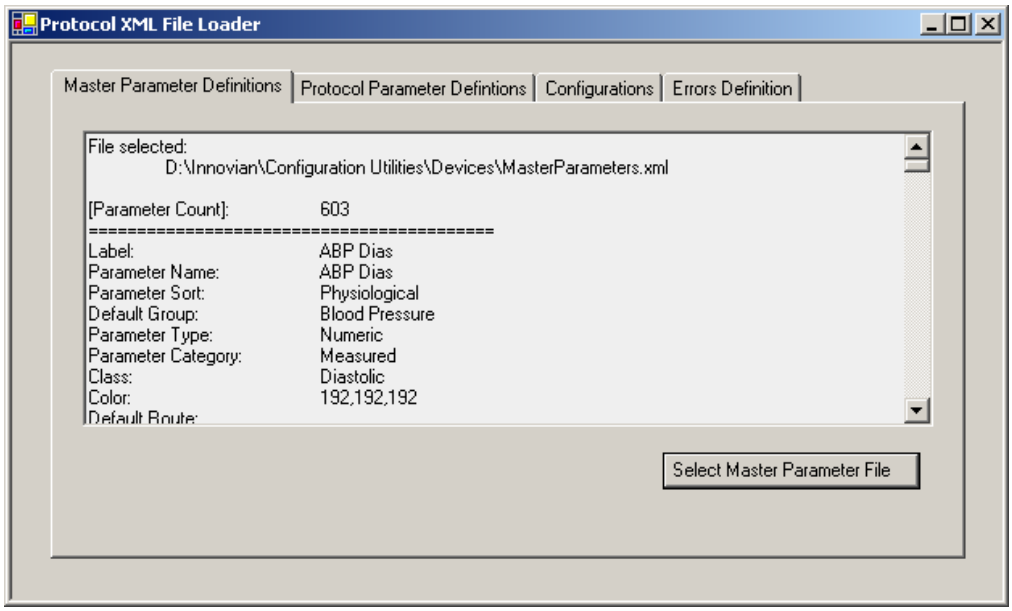
6.0 Final Server Preparation

6.1 Open **Query Analyzer** and attach to **PeriopDM**.
6.2 Execute this SQL statement: '**DBCC checkconstraints**'.
6.3 Ensure that no errors are returned.
6.4 In the Database dropdown box, select **PatientInfo**.
6.5 Execute this SQL statement: '**DBCC checkconstraints**'.
6.6 Ensure that no errors are returned.
6.7 Backup the database files (**PeriopDM_Data.mdf**, **PeriopDM_Log.ldf**, **PatientInfo_Data.mdf**, **PatientInfo_Log.ldf**, **Audit4sys_Data.mdf**, **Audit4sys_Log.ldf**) located at **D:\4sys** per the site's established procedures.

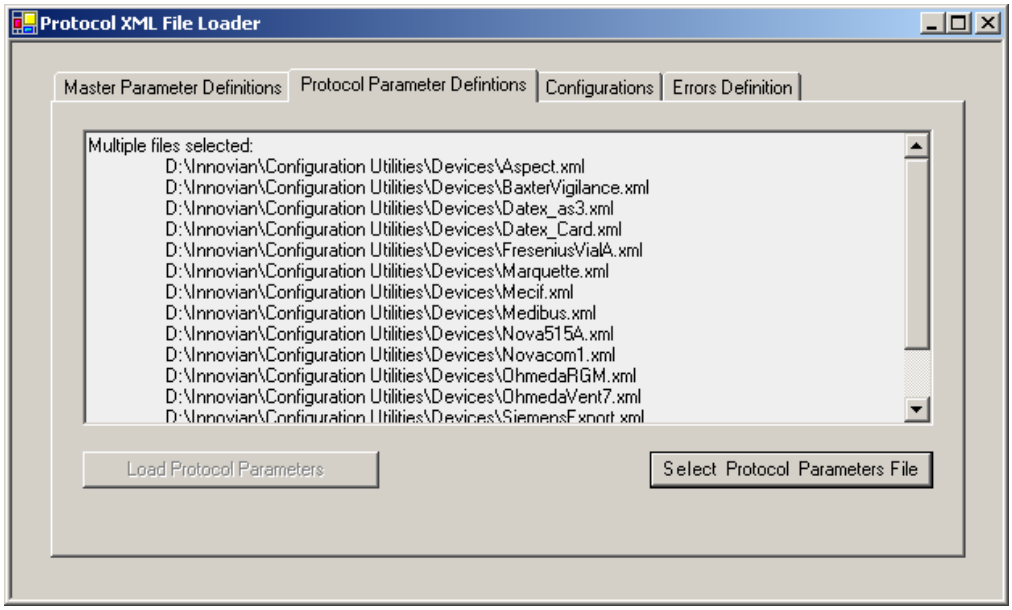
Note: The upgrade does not convert the Audit4sys database. The backups created in this step will be the only way to view the old data.

6.8 Browse to the **D:\Innovian\Configuration Utilities** folder.
6.9 Make sure the Draeger.IT.Platform.Config file is configured to point to **PeriopDM** and **PatientInfo** and the server name is correct.
6.10 Double-click **ProtocolLoader.exe**
6.11 Log on using the Setup user.

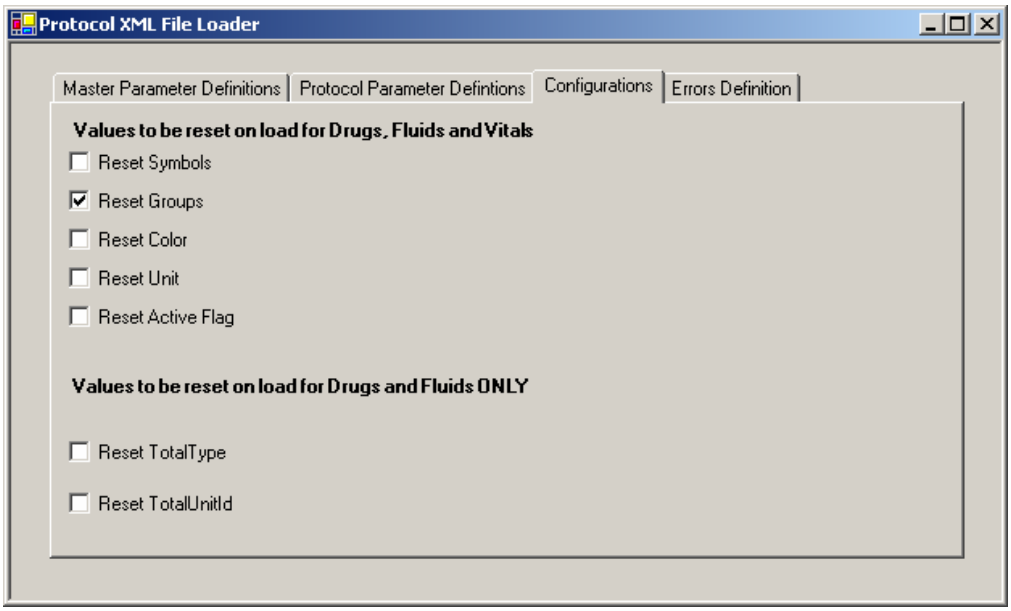
6.12 Click **Select Master Parameter File** and browse to D:\Innovian\Configuration Utilities\Devices\ and select **MasterParameters.xml**



6.13 Click **Select Protocol Parameters File** and browse to D:\Innovian\Devices\. Select all **.xml** files except **MasterParameters.xml**, and then click **Open**.



6.14 Be sure that the **Reset Groups** box is checked on the **Configurations** tab.



6.15 Click **Load Protocol Parameters** on the **Protocol Parameter Definitions** tab and wait for the load to complete.
6.16 Ensure there are no errors.
6.17 Browse to D:\Innovian\Conversion and delete the folder.
6.18 Browse to D:\Innovian\DotNet Framework and delete the folder.
6.19 Browse to D:\Innovian\Devices and delete the folder.

*******Upgrade Complete, proceed to Innovian Workstation Procedure*******

Appendix A. Upgrading the Innovian Server Databases in a Location other than D:\

This appendix references steps performed in previous procedures that use path information that must be changed if the **D:** drive is not available for installing the databases.

Section 2.0

2.1 If **D:** is not available, then copy the Innovian folder to any drive other than the drive containing the Operating System (step 2.2 in “Server Preparation”).

2.2 Any paths referenced in this section will now need to point to the path chosen in Appendix A 2.1

Section 3.0

3.1 Browse to X:\Innovian\DotNet Framework and double-click **DotNetfx – Framework 11.exe** where ‘X’ is the drive chosen in Appendix A 2.1 (Step 3.7 in “DotNet Framework 1.1 Upgrade”).

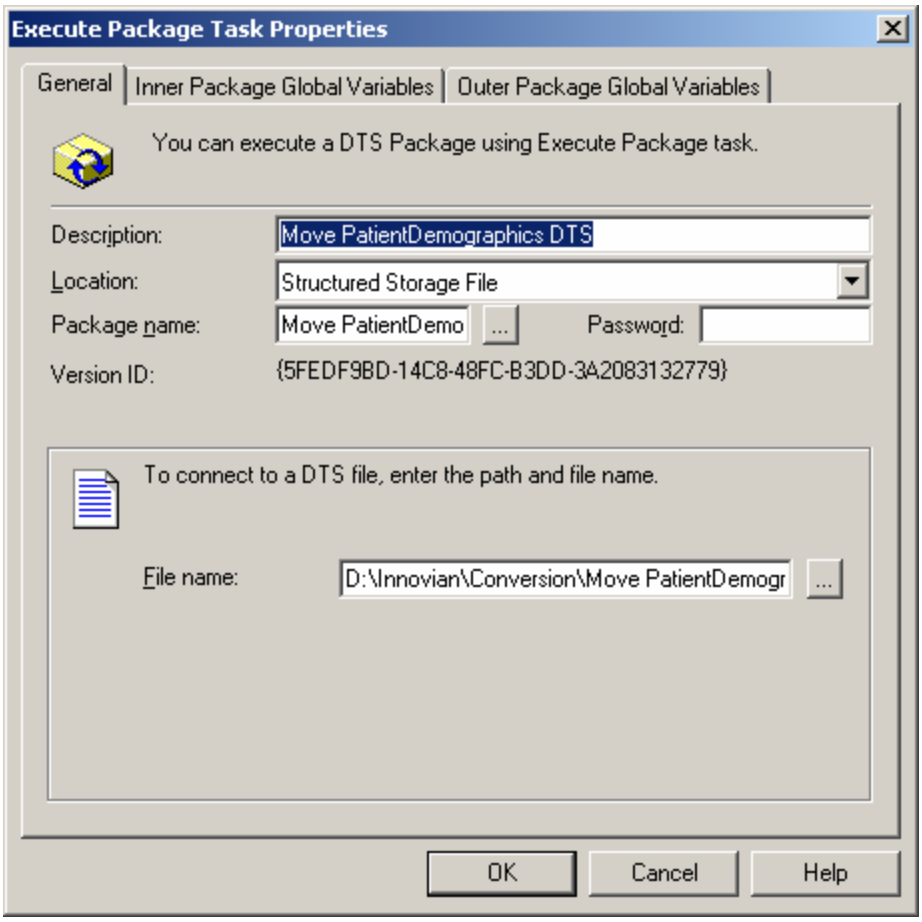
3.2 Browse to X:\Innovian\DotNet Framework where ‘X’ is the drive chosen in Appendix A 2.1 (Step 3.12 in “DotNet Framework 1.1 Upgrade”).

Section 4.0

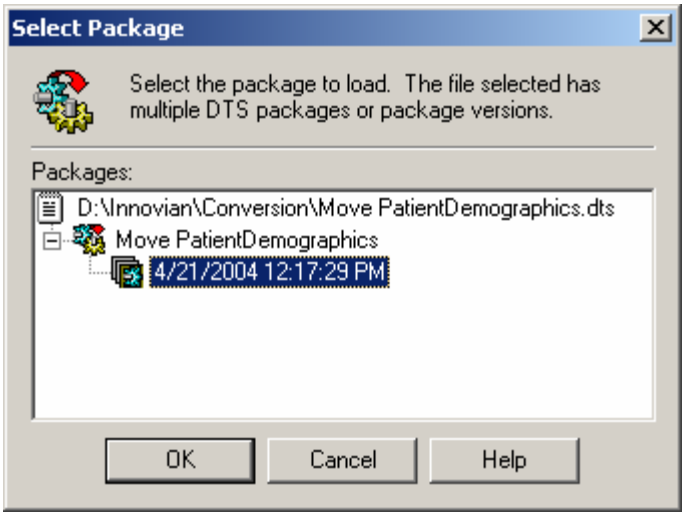
4.1 Attach the **DB file X:\Innovian\PatientInfo_Data.mdf** as ‘**Staging**’ with an owner of ‘**sa**’ where ‘X’ is the drive chosen in Appendix A step 2.1 (step 4.3 in “PatientInfo Database Upgrade”).

4.2 Browse to the folder X:\Innovian\Conversion\1.1 to 1.2 Patient Master.dts where ‘X’ is the drive chosen in Appendix A 2.1 (step 4.5 in “PatientInfo Database Upgrade”).

4.3 Before executing ‘1.1 to 1.2 Patient Master.dts’ double-click the ‘**Move PatientDemographics DTS**’ icon.



Click the '**…**' button next to the '**File name**' field and browse to the path selected in Appendix A 2.1 and select '**Move PatientDemographics.dts**' file. Click '**Open**'. Click the '**…**' button next to the '**Package name**' field. Click the '**+**' and select the most recent date.



Click **OK**.

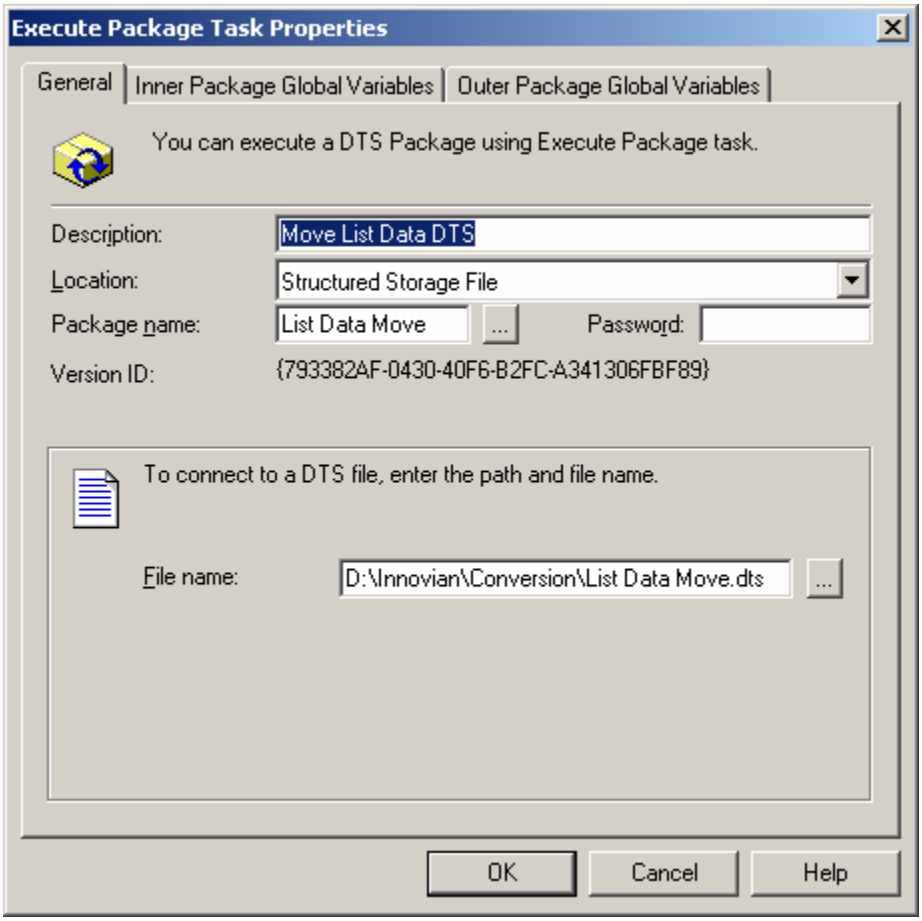
**Repeat this step for the 'Move Patient Header Data DTS', 'Move Patient Data DTS' icons before executing the package (step 4.7 in "PatientInfo Database Upgrade").

Section 5.0

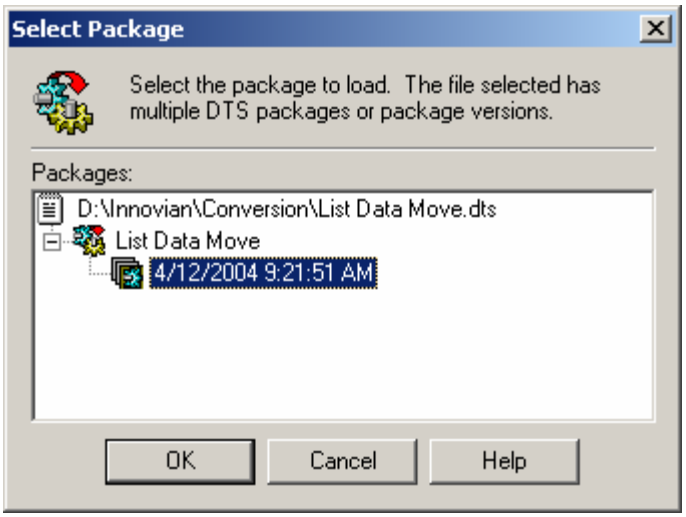
5.1 Attach the DB file **X:\Innovian\PeriopDM_Data.mdf** as '**Staging**' with an owner of '**sa**' where 'X' is the drive chosen in Appendix A step 2.1 (step 5.3 in "PeriopDM Database Upgrade").

5.2 Browse to the folder X:\Innovian\Conversion\1.1 to 1.2 Conversion Master.dts where 'X' is the drive chosen in Appendix A 2.1 (step 5.5 in "PeriopDM Database Upgrade").

5.3 Before executing '1.1 to 1.2 Conversion Master.dts' double-click the '**Move List Data DTS**' icon.



Click the '**…**' button next to the '**File name**' field and browse to the path selected in Appendix A 2.1 and select '**List Data Move.dts**' file. Click '**Open**'. Click the '**…**' button next to the '**Package name**' field. Click the '**+**' and select the most recent date.



Click **OK**.

**Repeat this step for the 'Move Case Header Data DTS', 'Move Case Data DTS', 'Move CaseVitalData to Temp DTS', and 'Move tmp_CaseVitalData to CaseVitalData DTS' icons before executing the package (step 5.7 in "PatientInfo Database Upgrade").

Section 6.0

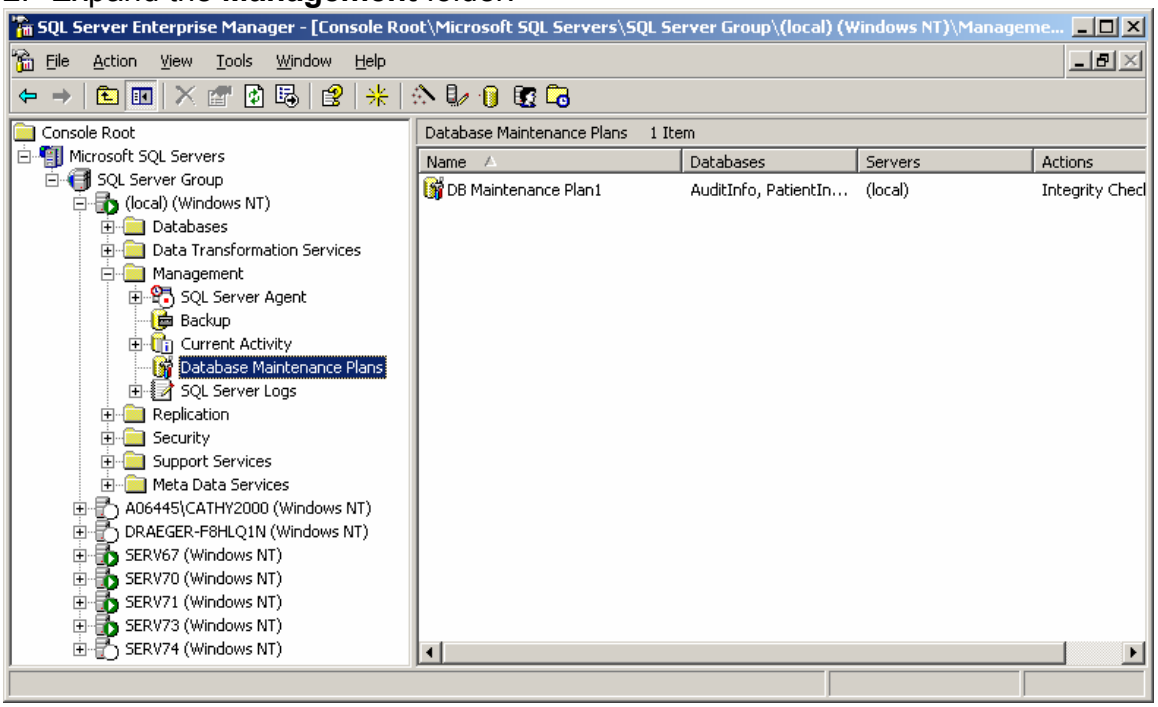
6.1 All paths in this section should be changed to reflect the path chosen in Appendix A 2.1.

Appendix B. Activating Terminology Databases Not Supported by the Innovian Code Loader

1. In Enterprise Manager, go to PeriopDM and right-click the **CodeScheme** table and choose **Open Table, Return All Rows**. Set the rows (that correspond to the attached code scheme databases) to active (change the Active column from 0 to **1**).
2. In the **ServerConnectionString** column, change <**Server Name**> to the name of the database server for all activated rows.

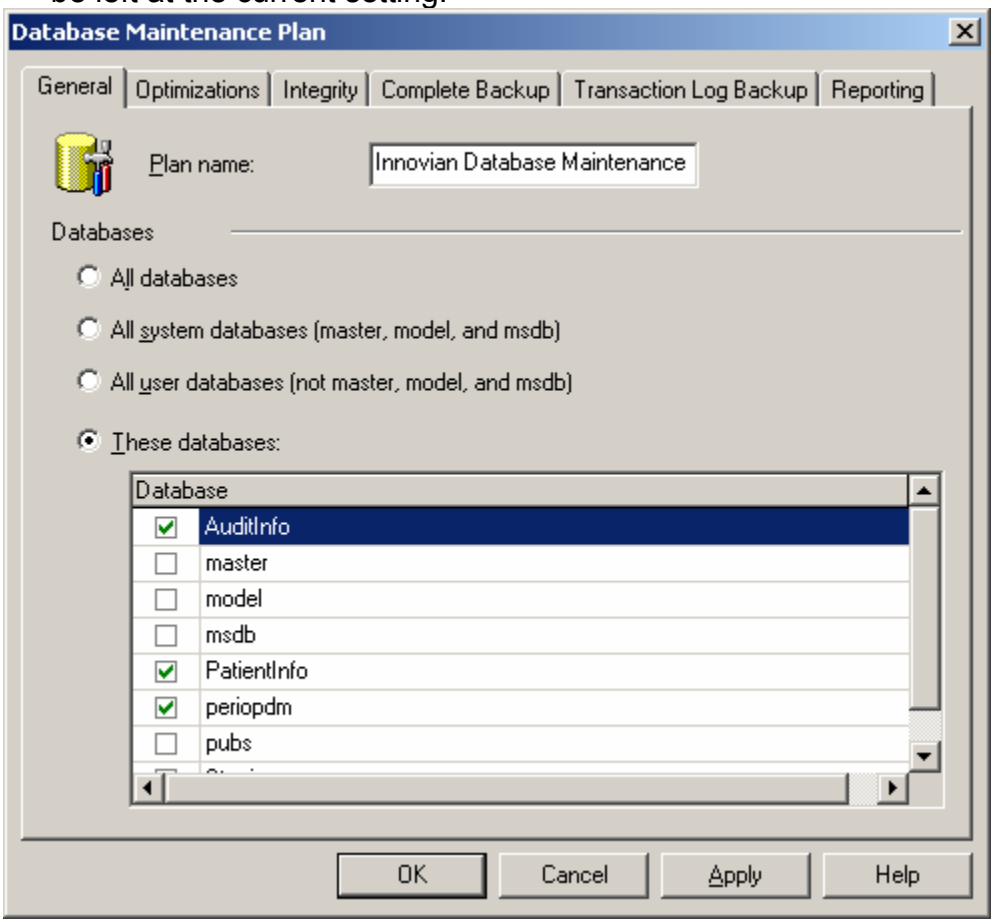
Appendix C. Ensuring the Innovian Databases are Backed Up after the Upgrade

1. In Enterprise Manager, browse to the Local server in the left pane.
2. Expand the **Management** folder.



3. If there is a maintenance plan for the Innovian databases in the right pane, double-click it.

4. If '**All Databases**' or '**All User Databases**' is selected, click **OK** to close the window. If '**These Databases**' is selected, scroll through the list of databases and make sure **PeriopDM**, **PatientInfo**, and **AuditInfo** are selected. Any databases other than the three Innovian databases should be left at the current setting.



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Field Service Procedure

Part Number: SP00317
Rev: –
Date: 28 April 2004
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Innovian 1.1.0.7 to Innovian 1.2 Upgrade Procedure

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